

AMENDMENTS TO CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-55 (canceled)

Claim 56 (new): An isolated polynucleotide comprising:

- (a) a nucleotide sequence encoding a polypeptide having S-adenosylmethionine synthetase activity, wherein the nucleotide sequence encoding the polypeptide and the nucleotide sequence of SEQ ID NO:38 have at least 90% sequence identity based on BLASTN alignment, or
- (b) a full-length complement of the nucleotide sequence of (a).

Claim 57 (new): The polynucleotide of Claim 56, wherein the nucleotide sequence encoding the polypeptide and the nucleotide sequence of SEQ ID NO:38 have at least 95% sequence identity based on BLASTN alignment

Claim 58 (new): The polynucleotide of Claim 56, wherein the nucleotide sequence encoding the polypeptide comprises the nucleotide sequence of SEQ ID NO:38.

Claim 59 (new): A vector comprising the polynucleotide of Claim 56.

Claim 60 (new): A recombinant DNA construct comprising the polynucleotide of Claim 56 operably linked to a regulatory sequence.

Claim 61 (new): A method for transforming a cell comprising transforming a cell with the polynucleotide of Claim 56.

Claim 62 (new): A cell comprising the recombinant DNA construct of Claim 60.

Claim 63 (new): A method for producing a plant comprising transforming a plant cell with the polynucleotide of Claim 56 and regenerating a plant from the transformed plant cell.

Claim 64 (new): A plant comprising the recombinant DNA construct of Claim 60.

Claim 65 (new): A seed comprising the recombinant DNA construct of Claim 60.